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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,976	02/05/2004	Allan E. Blackburn	A36080 - 072731.0202	5204
21003	7590 06/27/2005		EXAMINER	
BAKER & BOTTS 30 ROCKEFELLER PLAZA			KASTLER, SCOTT R	
NEW YORK.			ART UNIT	PAPER NUMBER
			1742	

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	<i>(\bullet\chi\)</i>		
	10/772,976	BLACKBURN ET AL.			
Office Action Summary	Examiner	Art Unit			
,	Scott Kastler				
The MAILING DATE of this communication ap		with the correspondence address			
Period for Reply	,				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).		a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<u>_</u> ·				
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.				
3)☐ Since this application is in condition for allowa	•				
closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-7 is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.	•			
10)⊠ The drawing(s) filed on <u>05 Fe<i>bruary 2004</i></u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	tion is required if the drawi	ng(s) is objected to. See 37 CFR 1.121(d).		
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attach	ed Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C	. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:	, p , a	3 (-) (-) (-).			
1. Certified copies of the priority document	ts have been received.				
2. Certified copies of the priority document		Application No			
3. Copies of the certified copies of the prior	ority documents have been	en received in this National Stage			
application from the International Burea	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies no	ot received.			
Attachment(s)	 □	O(DTO 110)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) o(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice o	f Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:	·			

U.S. Patent and Trademark Offi PTOL-326 (Rev. 1-04)

Claim Objections

Claims 2-6 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The above claims do not fairly further limit independent apparatus claim 1 because the above claims recite only limitations dealing with the manner or method in which the claimed apparatus is to be employed (how the electron gun is to be directed around the cold hearth area). It has been well settled that the manner or method of use of an apparatus cannot be relied upon to fairly further limit claims to the apparatus itself. See MPEP 2114 and *In re Casey*, 152 USPQ 235.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by either of Joseph or Entrikin et al. Both of Joseph and Entrikin et al teach a cold hearth melting and refining arrangement including a cold hearth holding a pool of molten metal (20 in Joseph and 10 in Entrikin et al), an electron gun configured to generate an electron beam (24 in Joseph and 14 or 15 in Entrikin et al) and a programmable controller for moving the electron beam in a pattern for evaporating impurities that collect on the pool edge (see col. 5 lines 30-40 for example in Joseph

and col. 4 lines 27-35 for example Entrikin et al) thereby showing all aspects of the above claims since as stated above, with respect to instant claims 1-6, the actual manner in which the electron gun is moved is a limitation directed to the use of the claimed apparatus and cannot be relied upon to further limit claims to the apparatus itself.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by either of Harker'776 or Harker'635. Both of Harker'776 and Harker'635 teach a cold hearth melting and refining arrangement including a cold hearth holding a pool of molten metal (10), an electron gun configured to generate an electron beam (15) and a programmable controller for moving the electron beam in any desired pattern (see col. 2 lines 45-61 of each of Harker'776 and Harker'635 for example), thereby showing all aspects of the above claims since as stated above, the actual manner in which the electron gun is moved is a limitation directed to the use of the claimed apparatus and cannot be relied upon to further limit claims to the apparatus itself.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 1742

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott Kastler Primary Examiner Art Unit 1742

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